Serial No. 09/750,369
May 11, 2004
Reply to the Office Action dated January 12, 2004
Page 2 of 14

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A network-based eyeglass lens and frame ordering and marketing system comprising:

a user interface unit;

a sales and an electronic service center; and

at least one of a network and a data transmission system connecting the user interface unit and the sales and electronic service center; wherein

said sales and electronic service center comprises (1) a means for determining whether a user is registered; (2) at least one of (a) a means for extracting the user's vision data, (b) a means for determining whether the user has a doctor's prescription, (c) a means for determining whether the user is aware of the difficulty in viewing near distances, and (d) a means for determining the user's vision based on the user's age; (3) an eyeglass lens selection means for selecting eyeglass lenses from among a plurality of eyeglass lenses in response to input from the user of one of (a) lens selection according to the latest vision data extracted from the user's vision data, (b) lens selection according to a doctor's prescription, (c) lens selection of presbyopic eyeglasses according to the user's age, and (d) lens selection according to a remote vision test; (4) a remote vision testing means for testing vision of the user remotely over the network and/or a means for receiving/extracting data such as a doctor's prescription relating to the user's vision, age and the latest vision data; (5) a display information creating means for creating information relating to eyeglass frames in cooperation with or independently of at least one of after-mentioned fram selection means and eyeglass

Serial No. 09/750,369
May 11, 2004
Reply to the Office Action dated January 12, 2004
Page 3 of 14

ordering and marketing processing means, and for transmitting the information relating to the eyeglass frames to the user interface unit; (6) an eyeglass frame selection means for selecting eyeglass frames from among a plurality of eyeglass frames in response to input from the user; and (7) an eyeglass ordering and marketing processing means for determining eyeglass frames and/or eyeglass lenses in response to a requirement of the user sent from the user interface unit, for providing the user with information about ordering, and for concluding an eyeglass purchase contract with the user;

said remote vision testing means in the sales and electronic service center transmits through a vision test information input unit an uncorrected eye vision test window to the user interface unit based on data including criteria for vision test, determines the user's uncorrected vision based on user input and transmits a corrected eye vision test window to the user interface unit based on said uncorrected vision, and determines the user's corrected vision based on user input;

~~an eyeglass frame selection means for selecting eyeglass frames from among a plurality of eyeglass frames in response to input from a user;~~

~~means for creating display information relating to eyeglass frames;~~

~~vision testing means for testing vision of the user;~~

~~means for receiving data, such as a doctor's prescription relating to the user's vision, age and the latest vision data;~~

~~an eyeglass lens selection means for selecting eyeglass lenses from among a plurality of eyeglass lenses in response to user input;~~

~~an eyeglass ordering and marketing processing means for allowing said eyeglass frame selection means, said vision testing means, and said lens selection means to test vision in response to a requirement of the user sent from the user interface unit, to determine eyeglass frames and eyeglass lenses suitable for the vision tested by said vision testing means, for providing the user with information about ordering, and for concluding an eyeglass purchase contract with the user; and~~

Serial No. 09/750,369
May 11, 2004
Reply to the Office Action dated January 12, 2004
Page 4 of 14

~~a display information creating means for creating information relating to eyeglass frames in cooperation with or independently of at least one of said frame selection means and said eyeglass ordering and marketing processing means, and for transmitting the information relating to the eyeglass frames to the user interface unit; wherein~~

said sales and electronic service center comprises a user information registration means, a frame selection information input means, a database control means, a frame information registration means, a frame image registration means, a frame selection means, an image processing means, an output means, and a WWW server;

said frame image registration means inputs frame images provided by the sales and electronic service center;

said user information registration means registers and controls user's information including addresses, names, dates of birth, telephone numbers, eye conditions, requests for eyeglasses, data for identifying users such as user identifications (IDs), user passwords, and user codes, and a face image sent from the user interface unit;

said database control means stores and controls a user's face images input by the user information registration means and frame images input thereto;

said frame selection means is adapted to select an appropriate one of frame functional structures such as the distance between the right and left pupils, the widths from the center of the right and left pupils to the feet of the ears, the opening angles of temples determined based on the widths from the center of the right and left pupils to the feet of the ears, the distances from the feet of the ears to the tops of the corneas, the bending positions of the temples, the distances between the tops of the corneas and the foot of the nose, and the opening angles of pad bridges determined based on the distances between the tops of the corneas and the foot of the nose, frame ornamental structures, and frame images, stored by the frame information registration means, for each frame of the database control means, corresponding to frame selection criteria

Serial No. 09/750,369
May 11, 2004
Reply to the Office Action dated January 12, 2004
Page 5 of 14

requested by the user and controlled by the database control means, and is adapted to
create or select a frame image for displaying eyeglass frames of different types; and

     said image processing means is adapted to output via an output means an
eyeglass-wearing image with an eyeglass frame image, selected by said frame
selection means, being combined with the face image data controlled by the database
control means, and the user selects one of the lens according to the doctor's
prescription, the presbyopic lens when the user's age is at least ~~about~~ over 40 years
old, the lens according to the latest vision data the <u>sales and</u> electronic service center or
the user has, or the lens based on <u>remote</u> vision test <u>over the network</u>.

     Claims 2-11 (canceled)

     Claim 12 (currently amended): A method for ordering eyeglass lenses and
frames via at least one of a network and a data transmission system and using a user
interface unit, ~~an~~ <u>a sales and</u> electronic service center, and at least one of a network
and a data transmission system connecting the user interface unit and the<u> sales and</u>
electronic service center~~, said method comprising:~~; wherein

     ~~selecting eyeglass frames from among a plurality of eyeglass frames in response~~
~~to user input via the user interface unit;~~

     ~~creating display information relating to eyeglass frames;~~

     ~~testing vision of the user or receiving data relating to the user's vision;~~

     ~~selecting eyeglass lenses from among a plurality of eyeglass lenses in response~~
~~to the user input and the tested vision of the user;~~

     ~~processing an eyeglass order made based on said eyeglass frame selection~~
~~step, said vision test step, and said lens selection step such that vision is tested vision~~
~~in response to a requirement of the user sent from the user interface unit, determining~~
~~eyeglass frames and eyeglass lenses suitable for the vision, providing the user interface~~

Serial No. 09/750,369
May 11, 2004
Reply to the Office Action dated January 12, 2004
Page 6 of 14

~~unit with information about ordering, and concluding an eyeglass purchase contract with the user; and~~

~~creating display information relating to eyeglass frames in cooperation with or independently of one of said frame selection step and said eyeglass ordering processing step, and for transmitting the information on the eyeglass frames to the user interface unit; wherein~~

the sales and electronic service center (1) determines whether a user is registered; (2) processes at least one step of (a) a step for extracting the user's vision data, (b) a step for determining whether the user has a doctor's prescription, (c) a step for determining whether the user is aware of the difficulty in viewing near distances, and (d) a step for determining the user's vision based on the user's age; (3) selects eyeglass lenses from among a plurality of eyeglass lenses in response to input from the user of one of (a) lens selection according to the latest vision data extracted from the user's vision data, (b) lens selection according to a doctor's prescription, (c) lens selection of presbyopic eyeglasses according to the user's age, and (d) lens selection according to a remote vision test; (4) tests vision of the user remotely over the network and/or receives/extracts data such as a doctor's prescription relating to the user's vision, age and the latest vision data; (5) creates display information relating to eyeglass frames in cooperation with or independently of at least one of after-mentioned frame selection step and eyeglass ordering and marketing processing step, and transmits the information relating to the eyeglass frames to the user interface unit; (6) selects eyeglass frames from among a plurality of eyeglass frames in response to input from the user; and (7) processes an eyeglass order made based on said eyeglass frame selection step and said lens selection step so as to determine eyeglass frames and/or eyeglass lenses in response to a requirement of the user sent from the user interface unit, provide the user interface unit with information about ordering, and conclude an eyeglass purchase contract with the user;

Serial No. 09/750,369
May 11, 2004
Reply to the Office Action dated January 12, 2004
Page 7 of 14

said remote vision test step conducted over the network includes a step of transmitting through a vision test information input unit an uncorrected eye vision test window to the user interface unit based on data including criteria for vision test, determining the user's uncorrected vision based on user input and transmitting a corrected eye vision test window to the user interface unit based on said uncorrected vision, and determining the user's corrected vision based on user input;

said sales and electronic service center comprises a user information registration means, a frame selection information input means, a database control means, a frame information registration means, a frame image registration means, a frame selection means, an image processing means, an output means, and a WWW server;

said frame image registration means inputs frame images provided by the sales and electronic service center;

said user information registration means registers and controls user's information including addresses, names, dates of birth, telephone numbers, eye conditions, requests for eyeglasses, data for identifying users such as user identifications (IDs), user passwords, and user codes, and a face image sent from the user interface unit;

said database control means stores and controls a user's face images input by the user information registration means and frame images input thereto;

said frame selection means is adapted to select an appropriate one of frame functional structures such as the distance between the right and left pupils, the widths from the center of the right and left pupils to the feet of the ears, the opening angles of temples determined based on the widths from the center of the right and left pupils to the feet of the ears, the distances from the feet of the ears to the tops of the corneas, the bending positions of the temples, the distances between the tops of the corneas and the foot of the nose, and the opening angles of pad bridges determined based on the distances between the tops of the corneas and the foot of the nose, frame ornamental structures, and frame images, stored by the frame information registration means, for each frame of the database control means, corresponding to fram selection criteria

Serial No. 09/750,369
May 11, 2004
Reply to the Office Action dated January 12, 2004
Page 8 of 14

requested by the user and controlled by the database control means, and is adapted to create or select a frame image for displaying eyeglass frames of different types; and

said image processing means is adapted to output via an output means an eyeglass-wearing image with an eyeglass frame image, selected by said frame selection means, being combined with the face image data controlled by the database control means, and the user selects one of the lens according to the doctor's prescription, the presbyopic lens when the user's age is at least ~~about~~ over 40 years old, the lens according to the latest vision data the sales and electronic service center or the user has, or the lens based on remote vision test over the network.

Claims 13-16 (canceled).